

74. A method of making a piezoelectric ink jet print head, comprising the steps of:

a) forming a sheet of piezoelectric material poled in a direction normal to said sheet and defining a plurality of parallel channels mutually spaced in any array direction normal to ^athe length of said channels, each channel being defined by facing side walls and a bottom surface extending between the respective side walls, each of said side walls including side electrodes on opposite sides thereof to form shear mode actuators for effecting droplet expulsion along ^athe length of the corresponding side wall;

b) forming a top sheet of insulating material having a pattern of parallel top electrodes, said top electrodes being congruent with ~~the~~ tops of said channels in said sheet of piezoelectric material; and

c) bonding by reflow soldering said top sheet to said sheet of piezoelectric material such that said top electrodes are attached to respective pairs of said side electrodes to close said channels at the top thereof.--

REMARKS

By the foregoing amendments, original claims 1-19 have been canceled, without prejudice, and new claims 20-74 have been added. With entry of the foregoing amendments, a total of 55 claims, including nine independent claims, will be at issue. Our check in the amount of \$1,238.00 to cover the filing fee for 35 claims in excess of 20 and six independent claims in excess of three is submitted herewith.

Any additional required fee may be charged to our deposit account no. 13-2855. Any overpayment should be refunded to the undersigned's law firm at the indicated address.

The specification has been amended to update the status of the parent application, which has issued as a patent, and to provide explicit support for language found in new claims 69, 72, and 74. Support for the language added to page 6 of the specification can be found in column 6, lines 22-32 and in Fig. 3 of EP 364,136, the disclosure of which is incorporated by reference at page 6.

It is believed that each of the new claims submitted herewith finds full support in the present application as originally filed, including disclosure incorporated by reference therein. It is believed that no new matter has been added.

A supplemental declaration of the inventors will be filed in due course in support of new claims 20-74.

New claims 67-74 are based directly on claims 1, 2, 3, 6, 8, 9, 10, and 12, respectively, set forth in Braun U.S. Patent Application Serial No. 07/871,775 filed April 21, 1992, believed to be assigned to Eastman Kodak Company.

Submitted herewith for the examiner's information are copies of a certified copy of U.S. Application Serial No. 07/871,775 filed April 21, 1992, and European Patent Publication No. 566,875 published October 27, 1993, which is based on European patent application no. 93104581.9 filed March 19, 1993, claiming the priority of Braun U.S. Application Serial No. 07/871,775.

To the undersigned's knowledge, no U.S. patent has issued from Braun U.S. Application Serial No. 07/871,775. (A computer search carried out August 28, 1996 failed to reveal any such U.S. patent.)

European Patent Publication No. 566,875 was published October 27, 1993, subsequent to the June 17, 1992 international filing date of this application's counterpart International Application No. PCT/GB92/01085, and thus is not prior art with

respect thereto. The filing date of Braun U.S. Application Serial No. 07/871,775 is April 21, 1992, prior to the applicants' international filing date, but subsequent to its June 17, 1991 British priority date.

Also submitted herewith for the examiner's information is a copy of the applicants' U.S. Patent No. 5,463,414 (October 31, 1995), which issued from parent U.S. application Serial No. 08/167,894.

A completed Form PTO-1449 is submitted herewith for the examiner's convenience.

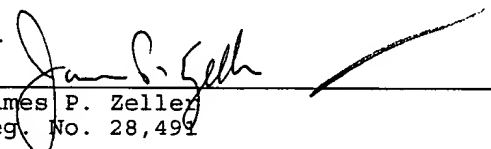
An early and favorable action on the merits is solicited.

Respectfully submitted,

MARSHALL, O'TOOLE, GERSTEIN,
MURRAY & BORUN

August 28, 1996

By


James P. Zeller
Reg. No. 28,499

6300 Sears Tower
233 South Wacker Drive
Chicago, Illinois 60606-6402
(312) 474-6300